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**South Florida Water Management District
Regulatory Peer Review Forum
June 4, 2004
10am-noon**

SUMMARY

Attendees:

L. Van Cott.....	SDG
Jay Foy	Stormwater J Engineering, Inc.
Craig Kidwell	Quore Property Sciences
Bill Keith.....	Keith & Associates
Hian C. Kor	K-F Group
Patrick Martin	Lake Worth Drainage District
Tracy Robb	Calvin-Giordano
Fred Roth.....	Schorah & Associates
Ken Todd.....	Palm Beach County
Gerry Ward	Ward Engineering
Alan Wertepny	Mock Roos
Terrie Bates	SFWMD - Environmental Resource Regulation Staff
Damon Meiers	SFWMD - Environmental Resource Regulation Staff
Carlos Adorisio	SFWMD - Everglades Regulation Division
Anita Bain	SFWMD - Environmental Resource Compliance Division
Yvette Bonilla	SFWMD - Environmental Resource Regulation Staff
Suelynn Dignard.....	SFWMD - Coastal Ecosystems Division
Ralph Fanson	SFWMD - Environmental Resource Regulation Staff
Maria Clemente	SFWMD - Environmental Resource Compliance Division
Anne Roth	SFWMD - Regulatory Information Management Division

1. Opening remarks and review of previous meeting minutes (Damon Meiers)

Mr. Meiers opened the meeting at about 10:10 am. All persons present introduced themselves. There were no comments about the minutes of the previous meeting.

Mr. Meiers briefly outlined a new District policy about security as it will be applied to visitors. Mr. Meiers and Ms. Bates provided a short discussion of the District *Strategic Plan* [See Attachment 1] and budget. Mr. Meiers reported that all of the major elements of the state monies which the District requested were included in the budget which was recently passed by the legislature and was awaiting final action by the governor.

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2. C-51 Basin Study Update/C-51 Basin Rulemaking Update (Sue Lynn Dignard/Damon Meiers)

Ms. Dignard said the draft of the final deliverable – Deliverable Number 4 – would arrive during the third week of June. The contract was being extended to reflect that the final deliverable would be provided in September.

Modeling runs, including those involving changes in sub-basins 27 and 29B, were done. Ms. Dignard did not have with her the resulting numbers, but the impacts will be minimal. The results will be part of Deliverable Number 4.

Mr. Foy reported that on small, high sites where dry detention is proposed, it is sometimes easier to apply the present criteria than the proposed. There was a general discussion of the details of site design and meeting the proposed criteria.

Mr. Meiers reported on the C-51 Basin Rule. Since the April Peer Group meeting and the May public workshop, he has been considering the possibility of adding language on the subject of water quality criteria which apply to retrofitting or redevelopment activities.

He has decided that this present rule-making effort is not the appropriate process for adding such language. A separate rule, which would encompass more of southeast Florida, would be better.

The STA 1-E construction will be done in July, and there is yet work to be done on C-51. DEP has not issued the permit to turn on the STA 1-E pumps.

Mr. Ward asked about the possibility of getting an interim permit. Mr. Meiers said that would be a complicated multi-agency effort. Mr. Martin said that at the June 3 WRAC meeting, a pump start date of sometime in July 2004 with flow-through in July 2005 were announced.

As to interim criteria for the C-51 Basin, Mr. Meiers reported that the District had completed its review of results of the study funded by Palm Beach County, and that discussions were continuing. Mr. Todd said the final numbers should arrive today or next Monday. Mr. Meiers commented that more work would be needed.

Mr. Todd asked how the District would use the final numbers. Mr. Meiers responded that the District would look at how best to use the results. Mr. Todd said the sooner, the better, a feeling echoed by several others.

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Mr. Meiers responded that if the present rule-making process were delayed, then the interim criteria could be promulgated in a separate rule-making process. Because of his heavy involvement in the Scripps project and West Coast matters, he hadn't had time to discuss the matter with Office of Counsel.

There was a general discussion of using the interim numbers to get County permits.

3. Scripps Expedited Permit Update (Damon Meiers)

Mr. Meiers reported that the Vavrus expedited permit project description information had been submitted and the District responded yesterday, June 3 by stating that the project concept was permissible. Palm Beach Gardens submitted a related 2,000 acre DRI, which did not cover the entire Vavrus holdings.

The Mecca Farms DRI was submitted. The District's draft response is being circulated for review. It is due on June 11. Mr. Meiers mentioned the Vavrus/Palm Beach Gardens lawsuit.

A conceptual ERP application was submitted on May 12. The District sent a request for additional information letter on May 27. A response may come as early as next week (June 7-11).

The District's largest concerns were the secondary impacts of proposed items such as roads and an FPL substation. The applicant is preparing a list of potential mitigation projects. Those might include the flow-way, if Corps of Engineers participation in CERP funding can be maintained.

Also, an application was filed with the Corps for a permit primarily for tree removal and lake excavation. Mr. Ward expressed concerns about the Corps being separate from the other reviewing processes. Mr. Meiers responded that the Corps was well-involved in the Mecca Farms Phase I site.

He felt the Vavrus tract would present bigger regulatory problems. Mr. Keith commented that the Corps was deeply involved in a meeting he attended yesterday (June 3). There was a general discussion of maintaining Corps' involvement in concurrent permit application review processes.

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4. Pervious Pavement Discussion (Damon Meiers)

Mr. Meiers reported that the DEP was conducting pervious pavement research for use as a water quality BMP. SFWMD has not given credit for it in permits so far. He would like Peer Group members' comments.

Mr. Van Cott used it in several projects 10-12 years ago, then stopped, because of District refusal to accept it for water quality or quantity. He used it at a doctor's office and two commercial buildings. All continued to work well. He knew of a lumber yard on the West Coast which had pervious pavement 24 years. The owner kept the system well-vacuumed, and it was still working well.

Pervious pavement will not work in muck, any poorly-draining soil, or a tight soil. It is expensive. Mr. Van Cott used it to mitigate soil storage. It was in the parking lot, and needed a drainage system for large events. The cost of replacing unsatisfactory soils is too expensive to justify. Dry wells can be installed to conduct flows to the water table. Good maintenance is very important.

Mr. Todd said that he was a District employee who helped to "kill" pervious pavement. However, he is convinced now that the materials are improved. He mentioned a CE News article about pervious pavement in Pennsylvania. He also recalled how St. Lucie County had installed pervious pavement at their administrative facility, and how, in a year, after a rain, people had to walk through water to get to the building.

There must be solid sub-grade to hold up pervious pavement, yet compaction reduces soils voids. Mr. Todd will provide to Mr. Meiers a copy of the CE News article. Mr. Todd mentioned that DEP has pervious paving in their parking lot in Tallahassee.

Mr. Van Cott recalled that the Pennsylvania system was built in clay soil, so it needed an underdrain system.

Mr. Ward recalled that, in the 70's and 80's, Regulation did research of this sort, including a trench system, but he saw no similar items in the Strategic Plan. Mr. Meiers said DEP was the lead agency for the research, via contracts with various entities, including the University of Central Florida.

Mr. Meiers felt that there was already a great deal of good information "out there." It was a matter of gathering it together. Mr. Martin mentioned that he was part of Regulation's research unit, and that gathering existing data was part of what the unit did.

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Mr. Meiers said he would be Environmental Resource Regulation Department's lead for the project, with DEP responsible for the field research. The big question was: what kind of credit should be given?

Mr. Keith said near-coast redevelopment projects would need drainage solutions of this sort.

Mr. Foy felt that credit for quantity would not be as difficult to justify and quantify as would water quality credits. Mr. Van Cott and Mr. Martin agreed: the material is too pervious to improve quality.

Mr. Van Cott said 6 inches to 7½ inches is the typical thickness, because of the high porosity. There was a discussion of installation details, including use of underdrains and exfiltration trench.

Mr. Todd pointed out, in a follow-up to Mr. Keith's earlier remarks, that Palm Beach County wants reduced flows to Lake Worth Lagoon. If pervious pavement could be used to direct present runoff down to pervious soils, that would be good.

Mr. Foy said pervious pavement could be part of the retrofit rule. The consensus of the Group was that the District should look seriously at pervious pavement.

Mr. Meiers said he would appreciate any literature anyone could provide. Mr. Keith recalled a project 4-5 years ago along Indian River Lagoon. Mr. Foy suggested such studies would be good Ph.D. projects. Mr. Van Cott mentioned the existence of a Pervious Concrete Association.

Mr. Meiers felt pervious pavement would start as an additional BMP. Ms. Bates said it would be above required minimum water quality treatment. Mr. Van Cott pointed out that installation required a knowledgeable contractor and specialized equipment.

Mr. Todd said the County would consider pervious pavement as an additional BMP at Scripps. There was more general discussion.

5. Stub Canal Taskforce (Ken Todd)

Mr. Todd announced that he has been assigned to start up a formal task force devoted to Stub Canal issues. The Stub Canal is tributary to the C-51 Canal and drains Cloud Lake, West Gate, the Airport and the Old Okeechobee Road area. The basin is low and has a long history of flooding problems.

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An effort to deal with the problems began about 1½ years ago. It quickly became evident that a *large* number of governmental agencies and other interested and affected parties would be involved.

Mr. Todd met with Henry Dean, who requested that Mr. Todd kick off a formal task force, which would include FDOT, in about two weeks. The task force's first efforts would be directed toward discussing the problems and previous studies. SFWMD might be able to provide some funding.

The kickoff meeting is scheduled for Friday, June 18, from 8 A.M. to 10 A.M. in Conference Room 3B of Building B-1 at SFWMD Headquarters. Many parties, including certain local elected officials, are very interested in this.

6. Next Meeting date/topics/adjournment

Ms. Bates announced that SFWMD would be gaining the parts of Highlands County presently under the jurisdiction of SWFWMD. These are the high-growth parts. Most regulatory impacts will be in Water Use. SFWMD will assume responsibility for enforcing SWFWMD permits. No new staffing positions are being allocated.

She distributed copies of an announcement of a June 18 Wetlands Permitting Workshop, put on by the Corps, to be held from 8 A.M. to 1 P.M. at the SFWMD Headquarters B-1 Auditorium. (See Attachment 2)

Ms. Bates announced the creation of the Stormwater Management Division in the Ft. Myers Service Center. Carla Palmer will be the director. The division will conduct research in such issues as water quality and retrofit. Its mission, which is still being developed, may include TMDL-related activities.

Ms. Bates handed out the DEP draft verified list for the St. Lucie-Loxahatchee Group 2 Basin. (See Attachment 3). The DEP secretary is expected to sign off on the first two pages in about two weeks. The next step will be to develop restoration plans.

Mr. Van Cott asked if the District was involved in the dissolved oxygen (DO) issue. The District is providing data and attends some of the meetings. The District will also review future documents. Mr. Martin said the question was: Why is low DO present? Is it pollution-related or a natural phenomenon? There was a general discussion.

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Mr. Meiers asked for topics for the next Peer Group Meeting. Mr. Ward said the Stub Canal Task Force should be on the agenda.

The state-wide FES summer conference coincides with the August 6 Peer Group Meeting.

The next meeting is scheduled for Friday, August 6, 2004, at 10am in the Rogers Conference Room.

The meeting adjourned at about 11:50 A.M.

c: H. Dean - Executive Director
C. Wehle - Assistant Executive Director
S. Wood - District General Counsel
C. Merriam - Deputy Executive Director - Water Resources
A. Sewell - Media and Community Relations
T. Bates - Director - ERR
Environmental Resource Regulation Division Directors

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ATTACHMENT 1

**“Your Guide to the Strategic Plan”
and
Strategic Plan ([click here to view](#))**



OUR VALUES

Excellence:

Our knowledge, experience and passion set us apart as world-renowned water managers.

Team:

We are committed to the success of all – as individuals, as a team, and as an organization.

Communication:

We value and expect open, honest, and timely communication.

Service:

We meet our customer's (internal and external) needs with professionalism and integrity.

Integrity:

Team and sound science are the foundation of our excellence.

Honesty:

Honesty is never compromised.

Diversity:

Our diversity is the cornerstone of our strength.

Focus:

We are steadfast in our belief and commitment to the Mission of the District.

Adaptability:

We embrace change by taking informed risks and capitalizing on new opportunities and challenges.

Enthusiasm:

We do the coolest work on the planet!

Your Guide TO THE Strategic Plan

The Strategic Plan outlines the programs that have been developed and are being implemented to achieve the District's mission. This plan does not record all the work of the District but rather communicates the highest priorities. It identifies the broad goals established by the Governing Board that will serve as the measures of our success.

HOW IS THIS PLAN DIFFERENT FROM THOSE COMPLETED IN THE PAST?

The District's broad mission has been re-focused into 10 specific. This significant reduction from the previous 23 programs will focus the agency on the priorities at hand; will help the District better tell its story; and will be easier for the public, elected officials and our partner agencies to understand.

The Strategic Plan is more comprehensive than past plans. Previous strategic plans focused solely on the priorities. This plan is both programmatic and priority-focused. It sets forth strategies for the next ten years for all 10 programs, as well as the seven identified District priorities.

What also makes this plan different is that it will be implemented. It's not just another document to sit on the shelf and collect dust. The Strategic Plan leads to an annual work plan that includes the specific deliverables/milestones that are to be accomplished in FY 05. Quarterly reports will be produced and provided to the Governing Board that will be instrumental in the annual strategic plan cycle.

WILL THE PRIORITIES STAY THE SAME FOR 10 YEARS?

Not necessarily. The priorities will be re-examined every year. Some will be accomplished, new ones may be added, and others may be revised based on changes in our business environment.

HOW WILL WE MAKE SURE THE DISTRICT MEETS THE DEADLINES IN THE PLAN?

The Strategic Plan identifies key goals that will be considered when developing the District's budget priorities. Annual work plans for each program provide details about the programmatic priorities and success measures. Funding and staffing needs are assessed during the budget process. The work plans and draft budget will be presented to the Governing Board in June. This is the cycle the District will follow each year to direct funds and full-time employees to work efforts that have been prioritized by our Governing Board. This cycle is dynamic in that we will constantly be in a state of progression and activity. The Governing Board will serve in a key policy-making role by:

1. Annually determining the strategic priorities
2. Reviewing and adopting the annual programmatic work plans
3. Reviewing and adopting the annual budget
4. Reviewing performance reports

A program coordinator has been named for each of the 10 programs. These coordinators champion the programs, and coordinate the development of program goals, objectives, strategies and performance measures – as part of each program's budget and evaluation process.

NOW THAT WE HAVE A STRATEGIC PLAN, WILL PERFORMANCE PLANS BE CHANGED TO ALIGN WITH THE STRATEGIC PLAN?

The effect the Strategic Plan will have on your individual performance plan varies by program. The strategic planning cycle actually started in December 2003, and District managers were already aware of the Governing Board's strategic priorities. In most cases, performance plans should already reflect these priorities and be tied to major work efforts. However, future performance plans are expected to be tied even more closely with the annual work plan and Strategic Plan. This will ensure that we are working toward the same prioritized goals. Working together with clear vision and direction, we will continue to build a world-class water management organization!

ATTACHMENT 2

Corps of Engineers'

Wetlands Permitting Workshop

June 18, 2004

Welcome to
The U.S. Army Corps of Engineers
Jacksonville District, South Permits Section
Wetlands Permitting Workshop
June 18, 2004

at the

South Florida Water Management District Auditorium
3301 Gun Club Road, West Palm Beach, Florida



Our Agenda

- 0800-0830 Sign In
- 0830-0915 Corps' Regulatory Rules, Permit Types, and Wetland Systems Overview
by Dale E. Beter, USACE
- 0915-1000 Contents of a Complete Environmental Resource Permit (ERP) Application
by Dale E. Beter, USACE
- 1000-1015 Mitigation and Functional Assessments *by* Tori White, USACE

~ Break ~

- 1030-1100 Watershed Management *by* John F. Studt, USACE
- 1100-1130 Supreme Court decision SWANCC v. United States *by* John F. Studt, USACE
- 1130-1200 Permit Compliance and Enforcement *by* Dianne Griffin, USACE
- 1200-1230 ERP Briefing from SFWMD *by* Ed Cronyn, SFWMD
- 1230-1300 Questions and Answers

For more information about this Workshop please contact Dale E. Beter at:

South Permits Section
U.S. Army Corps of Engineers
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Palm Beach Gardens, Florida 33410
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Fax: 561-626-6971
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ATTACHMENT 3

DEP's Draft Verified List

for the

St. Lucie-Loxahatchee Group 2 Basin

Planning Unit	WBRD	Water Segment Name	Wastebody Type	Wastebody Class	1989 303(d) Parameters Assessed Using the Impaired Receptor Waters Rule (IMR)	EPA's Integrated Development Category	Priority for TMDL Development	Projected Year for TMDL Development	Comments (# Exceedance Samples) PP-Planning Period; VP=Verified Period
C-23	3200	C-23	STREAM	3F	Nutrients (CHLA)	5	Medium	2008	PP - Hichest Insufficient Data, VP - Verified Phosphorus limiting based on PP screening values of TP median = 0.306 mg/L, VP median = 0.32 mg/L.
C-23	3200	C-23	STREAM	3F	Dissolved Oxygen	5	Medium	2008	PP - 79/161 Potentially Impaired, VP - 54/123 Verified. Believed linked to elevated TP level 1P above the screening level for both TP and VP (TP median 0.31 mg/L and VP median 0.32 mg/L).
C-24	3197	C-24	STREAM	3F	Nutrients (CHLA)	5	High	2005	PP - Insufficient Data, VP - Verified Phosphorus limiting based on elevated TP levels, VP median 0.251 mg/L, VP median 0.259 mg/L, PP - 50/159 Potentially Impaired, VP - 50/147 Verified. Believes linked to decreased BOD during PP and VP - PP = 5.0 mg/L, VP = 5.0 mg/L.
C-24	3197	C-24	STREAM	3F	Dissolved Oxygen	5	High	2005	VP - 4/17 Potentially Impaired, VP - 21/43 Verified. Have no identified a pollutant at the time, pending further data analysis.
C-25	3163	Ft Pierce Pass Canal (BELCHER CANYON OR CK)	STREAM	3F	Dissolved Oxygen	5	High	2006	
C-25	3163B	C-25 EAST SEGMENT	STREAM	3F	Nutrients (CHLA)	5	Medium	2008	PP - No Data, VP - Verified Coliforms of nitrogen and phosphorus based upon TN median = 1.426 mg/L and TP median = 0.145 mg/L.
Coastal	3180	NORTH COASTAL ESTUARY	ESTUARY	3M	Nutrients (CHLA)	5	Medium	2008	PP - Potentially Impaired, VP - Potentially Impaired. Believed linked to coliforms of phosphorous and nitrogen.
Coastal	3180	NORTH COASTAL ESTUARY	ESTUARY	3M	Bacteria (Shellfish)	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	3183	ST LUCIE RIVER ESTUARY	ESTUARY	3M	Nutrients (CHLA)	5	Medium	2008	PP - Potentially Impaired, VP - Potentially Impaired. Have no identified a limiting nutrient at this time. Believed linked to coliforms of phosphorous and nitrogen.
Coastal	3208	MALABEE POCKET ESTUARY	ESTUARY	3M	Nutrients (CHLA)	5	Low	2010	PP - Potentially Impaired, VP - Potentially Impaired. Have no identified a limiting nutrient at this time. Believed linked to coliforms of phosphorous and nitrogen.
Coastal	3208	MALABEE POCKET ESTUARY	ESTUARY	3M	Copper	5	Medium	2008	PP - 0/7 Insufficient Data, VP - 27/50 Verified.
Coastal	3208	MALABEE POCKET ESTUARY	ESTUARY	3M	Bacteria (Shellfish)	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	3208	MALABEE POCKET ESTUARY	ESTUARY	3M	Bacteria (Shellfish)	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	3183	ROOSEVELT BRIDGE	COASTAL	3M	Bacteria (Shellfish)	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	3183A	SOUTHERN INDIAN RIVER ESTUARY	ESTUARY	2	Bacteria in Shellfish	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	810C	DUBOIS PARK COASTAL	COASTAL	3M	Bacteria in Shellfish	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	810C	DUBOIS PARK COASTAL	COASTAL	3M	Bacteria in Shellfish	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Coastal	3224	JONATHAN DICKINSON STREAM	STREAM	1	Fecal Coliform	5	Medium	2004	PP - 33/268 Not Impaired, VP - 24/162 Verified.
Coastal	3224	JONATHAN DICKINSON STREAM	STREAM	1	Totals Coliform	5	Low	2010	PP - 84/8 Potentially Impaired, VP - 50/4 Verifies.
Lobachichee	3224C	NORTH FORK LOXAHATCHIE ESTUARY	ESTUARY	3	Nutrients (CHLA)	5	Medium	2008	PP - Potentially Impaired, VP - Verified Coliforms of nitrogen and phosphorus based upon TN median = 0.785 mg/L and TP median = 0.028 mg/L.
Lobachichee	3224C	NORTH FORK LOXAHATCHIE ESTUARY	ESTUARY	3	Fecal Coliform	5	Low	2010	PP - 23/15 Potentially Impaired, VP - 12/71 Verified.
Lobachichee	3224C	NORTH FORK LOXAHATCHIE ESTUARY	ESTUARY	3	Bacteria in Shellfish	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
Lobachichee	3224C	NORTH FORK LOXAHATCHIE ESTUARY	ESTUARY	3	Bacteria in Shellfish	5	Medium	2008	Linked based on demographic of shellfish harvesting classification.
North St Lucie	3184	NORTH ST LUCIE ESTUARY	ESTUARY	3M	Dissolved Oxygen	5	High	2005	PP - 70/216 Potentially Impaired, VP - 79/231 Verified. Believed linked to elevated BOD during PP and VP - PP = 7.5 mg/L and VP 7.7 mg/L.
North St Lucie	3184	NORTH ST LUCIE ESTUARY	ESTUARY	3M	Nutrients (CHLA)	5	High	2005	PP - Fiestica Potentially Impaired, VP - Verified Coliforms of nitrogen and phosphorus based upon TN median = 0.742 mg/L and TP median = 0.034 mg/L.
North St Lucie	3184	NORTH ST LUCIE ESTUARY	ESTUARY	3M	Copper	5	Medium	2008	PP - 3/3 Potentially Impaired, VP - 20/54 Verifies.
North St Lucie	3194A	TENMILE CREEK	STREAM	3F	Dissolved Oxygen	5	Low	2010	PP - 25/33 Potentially Impaired, VP - 64/75 Verified. Believed linked to elevated TP levels, TP above the screening level for both PP and VP (PP median 0.337 mg/L, VP median 0.337 mg/L).
North St Lucie	3194B	ST LUCIE ESTUARY	ESTUARY	3M	Nutrients (CHLA)	5	High	2005	PP - Fiestica Potentially Impaired, VP - Verified Nitrogen limiting nutrient based on PP TN median of 1.1 mg/L.
North St Lucie	3194B	ST LUCIE ESTUARY	ESTUARY	3M	Dissolved Oxygen	5	Medium	2008	PP - 44/93 Potentially Impaired, VP - 41/318 Verified. Believed linked to elevated TN level, TN above the screening level for PP (PP median 1.1 mg/L).
North St Lucie	3194B	ST LUCIE ESTUARY	ESTUARY	3M	Copper	5	Medium	2008	PP - 2/17 Not Impaired, VP - 25/55 Verifies.
North St Lucie	3194B	ST LUCIE ESTUARY	ESTUARY	3M	Dissolved Oxygen	5	Medium	2008	PP - 8/15 Potentially Impaired, VP - 12/30 Verified. Believed linked to elevated BOD level during PP and VP (PP median BOD = 3.2 mg/L, VP median = 2.2 mg/L).
North St Lucie	3194D	FIVE MILE CREEK	STREAM	3F	Dissolved Oxygen	5	Medium	2008	PP - 47/158 Potentially Impaired, VP - 50/153 Verified. Believed linked to elevated BOD level of 6 mg/L during PP.
Okeechobee Waterway (C-44)	3210	TIDAL ST LUCIE ESTUARY	ESTUARY	3M	Nutrients (CHLA)	5	Medium	2008	PP - Potentially Impaired, VP - Potentially Impaired. Have no identified a limiting nutrient at this time.
South St Lucie RL	3210	TIDAL ST LUCIE ESTUARY	ESTUARY	3M	Copper	5	Medium	2008	PP - 0/2 Insufficient Data, VP - 82/5 Verifies.

DRAFT Verified List for the StLucie - Loxahatchee Group 2 Basin

Planning Unit	WBD	Water Segment Name	Watershed Type	Watershed Census	1987-2000 Parameters of Concern	Parameters Assessed Using the Impaired Waters Rule (IWR)	EPA's Integrated Report Category	Priority for TMDL Development	Proposed Year for TMDL Development	Comments (Exceedance Samples) Preplanting Period VP-Verified Period
South St. Lucie-RL	3211	BESSEY CREEK	ESTUARY	3M	Dissolved Oxygen	Dissolved Oxygen	5	High	2005	Believed linked to elevated TP level. VP above the screening level for the PP and VP (PP median 5.5 mg/l and VP median 0.213 mg/l). PP - 8/19 Potentially Impaired; VP - 10/23 Verified
South St. Lucie-RL	3211	BESSEY CREEK	ESTUARY	3M	Nutrients	Nutrients (CHL)	5	High	2005	PP - Insufficient Data; VP - Verified. Phosphorus testing based on TN median = 0.242 mg/L and TP median = 0.13 mg/L. PP - Not Impaired; VP - Verified. Believed linked to elevated TN level. TN above the screening level for PP and VP. PP median 1.291 mg/L and VP median 1.18 mg/L. PP - 6/120 Potentially Impaired; VP - 7/9/13 Verified. Believed linked to elevated BOD level. BOD median = 2.25 mg/L.
South St. Lucie-RL	3210A	ST. LUCIE CANAL	ESTUARY	3M	Nutrients	Nutrients (CHL)	5	Low	2010	
South St. Lucie-RL	3210B	SOUTH FORK ST. LUCIE	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	5	Low	2010	
South St. Lucie-RL	3210B	SOUTH FORK ST. LUCIE	STREAM	3F	Nutrients	Nutrients (CHL)	5	Low	2010	PP - Potentially Impaired; VP - Potentially Impaired. Have not identified a limiting nutrient at this time. Believed linked to combination of phosphorus and nitrogen. PP - 1/07 mg/l and VP - 0.13 mg/l. Data verified to be within the last 7.5 years. Confirmed recent data to coastal fish advisory for Ladyfish, grouper, and tuna. Includes WBDs 8101B and 8101C.
Southwest Coast	8988	FLORIDA ATLANTIC COAST	ESTUARY	3M		Mercury (in fish tissue)	5	Low	2011	
PP - 1981 to 2000 VP - 1996 to 2002										
- 5 - Verified Impaired - TMDL Required										
NOTE: St. Lucie - Loxahatchee Group 2 Verified List (V) is based on FDEP IWR Run 12.										
* Priorities were reassigned from the 1986-2000 list (i.e., High or Low) but High, Medium, and Low are used for waters newly identified under the IWR										

DRAFT Delist List for the St. Lucie - Loxahatchee Group 2 Basin

Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class	1998 303(d) Parameters of Concern	New Parameters of Concern from IWR	EPA's Integrated Report Category*	Comments (# Exceedances/# Samples) PP=Planning Period VP=Verified Period
C-25	3160	C-25 CANAL WEST (ST. JOHNS MARSH)	STREAM	3F	Coliforms	Total Coliform	2	PP - No Data; VP - No Data. Delisting based on application of new methodology and flaw in original listing.
C-25	3163	FT. PIERCE FARM CANAL (BELCHER CANTAYLOR CK)	STREAM	3F	Nutrients	Nutrients (CHLA)	2	PP - Insufficient Data; VP - Not Impaired. CHL mean = 16.11 ug/L (1 year), range = 1-28.98 ug/L, N=14.
Coastal	3208	MANATEE POCKET	ESTUARY	3M	Dissolved Oxygen	Dissolved Oxygen	2	PP - 6/290 Not Impaired; VP - 9/200 Not Impaired
Loxahatchee	3234	C-18	STREAM	1	Coliforms	Fecal Coliform	2	PP - 12/95 Not Impaired; VP - 6/48 Not Impaired
Loxahatchee	3224B	KITCHINGS CREEK	STREAM	3F	Coliforms	Fecal Coliform	2	PP - 0/10 Not Impaired; VP - 0/10 Insufficient Data
Loxahatchee	3224B	KITCHINGS CREEK	STREAM	3F	Coliforms	Total Coliform	2	PP - No Data; VP - No Data. Delisting based on application of new methodology and flaw in original listing.
Loxahatchee	3226A	NW FORK LOXAHATCHEE	ESTUARY	3M	Dissolved Oxygen	Dissolved Oxygen	2	PP - 0/42 Not Impaired; VP - 0/27 Not Impaired
Loxahatchee	3226C	SW FORK LOXAHATCHEE	ESTUARY	2	Dissolved Oxygen	Dissolved Oxygen	2	PP - 17/165 Not Impaired; VP - 10/82 Not Impaired
Loxahatchee	3226C	SW FORK LOXAHATCHEE	ESTUARY	2	Nutrients	Nutrients (CHLA)	2	PP - Not Impaired; VP - Not Impaired. CHL mean = 8.17 ug/L (2 years), range = 1.6-23.76 ug/L, N=37 (Mean of means = 8.17 ug/L, Range of means = 5.93-10.4 ug/L.
Loxahatchee	3226C	SW FORK LOXAHATCHEE	ESTUARY	2	Coliforms	Total Coliform	2	PP - 0/38 Not Impaired; VP - 0/18 Insufficient Data
North St. Lucie	3194A	TENMILE CREEK	STREAM	3F	Nutrients	Nutrients (CHLA)	2	PP - Insufficient Data; VP - Not Impaired. CHL mean = 9.94 ug/L (1 year), range = 1.98-25.38 ug/L, N=10
South St. Lucie-IRL	3210B	SOUTH FORK ST. LUCIE	STREAM	3F	Coliforms	Fecal Coliform	2	PP - 0/20 Not Impaired; VP - 0/9 Insufficient Data
South St. Lucie-IRL	3211	BESSEY CREEK	ESTUARY	3M	Coliforms	Total Coliform	2	PP - No Data; VP - No Data. Delisting based on application of new methodology and flaw in original listing.
* 2 = Not Impaired using Impaired Waters Rule methodology								
PP - 1991 to 2000; VP - 1996 to 2002								
Note: St. Lucie - Loxahatchee Group 2 Delist List (DL) is based on FDEP IWR Run 12.								

(# Exceedances/# Samples)
PP=Planning Period VP=Verified Period

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